

Name: _____

at1121exam_practice: Radicals and Squares (v619)

Question 1

Simplify the radical expressions.

$$\sqrt{98}$$

$$\sqrt{27}$$

$$\sqrt{12}$$

Question 2

Find all solutions to the equation below:

$$2(x - 4)^2 - 10 = 40$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 16x = -39$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 - 12x + 13$$

Express the function in **vertex form** and identify the **location** of the vertex.